

**Fernando Resendez**

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**Education**

University of California Riverside,  
Riverside CA  
B.S. Computer Science

**Objective**

Graduate from the University of California Riverside with a B.S. in Computer Science, ready to embark on a career in software engineering. Dual citizenship (Mexico and U.S.) with diverse academic and project experience in full-stack web development, databases, machine learning, NLP, embedded systems, and cybersecurity. Considering B.S.M.S. in computer science or entering workforce. Committed to making a significant impact in the field.

**Skills**

- Languages: Fluent in Spanish (Native), English
- Programming: C++, Python, Java, JavaScript, Go, HTML/CSS
- Databases & Data: PostgreSQL, SQL, MongoDB, Pandas, JSON for Modern C++
- Web Development: React.js, Node.js, AJAX
- GPU Computing: CUDA, cuDF
- Machine Learning & Statistics: Machine Learning Algorithms, Data Preprocessing, Statistics
- Embedded Systems & FPGA: Embedded Systems Development, FPGA Programming
- Security: Security Architecture, Penetration Testing
- Tools & Practices: VBA (Excel), AutoCAD, Battery Management Systems, Agile Methodologies, Software Development Process

**Experience / Portfolio****Steam DB**

- Developed a web-based analytics dashboard using NVIDIA's RAPIDS cuDF for GPU-accelerated data processing, achieving significant performance gains over traditional CPU-based solutions.
- Implemented a responsive frontend with React.js and Node.js, enabling dynamic query input and real-time performance monitoring for enhanced user interaction.
- Automated data pipelines for continuous ingestion and processing, ensuring up-to-date analytics insights for stakeholders.

**Manga Collectors Website**

- Engineered a scalable web application using MongoDB and Express.js, supporting efficient management of user-generated content.
- Implemented advanced search and recommendation systems with NLP techniques and collaborative filtering algorithms to boost user engagement.
- Facilitated community interaction through user reviews, ratings, and personalized recommendation feeds, fostering a vibrant user community.

**JSON Database**

- Architected a JSON-based database system in C++ with secure user authentication and role-based access control (RBAC).
- Optimized CRUD operations and indexing for efficiency, achieving significant performance improvements for data retrieval and manipulation.